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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,621	02/21/2007	Patrick Le Bot	Serie 6425	9641
40582 AIR LIQUIDE	7590 08/30/201 USA LLC	0	EXAM	INER
Intellectual Property 2700 POST OAK BOULEVARD, SUITE 1800			PETTITT, JOHN F	
HOUSTON, TX		11E 1800	ART UNIT PAPER NUMBER	
			3744	
			MAIL DATE	DELIVERY MODE
			08/30/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/577,621	LE BOT ET AL.	
Office Action Summary	Examiner	Art Unit	
	John F. Pettitt	3744	
The MAILING DATE of this communication a	ppears on the cover sheet w	th the correspondence address	
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perio  - Failure to reply within the set or extended period for reply will, by statu	DATE OF THIS COMMUNI  1.136(a). In no event, however, may a  d will apply and will expire SIX (6) MON to the cause the application to become Al	CATION.  reply be timely filed  ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	ung date of this communication, even if	umely flied, may reduce any	
Status 			
<ul> <li>1) Responsive to communication(s) filed on 28</li> <li>2a) This action is FINAL. 2b) Th</li> <li>3) Since this application is in condition for allow closed in accordance with the practice under</li> </ul>	nis action is non-final. vance except for formal mat	·	s
Disposition of Claims			
4) ☐ Claim(s) <u>15-28</u> is/are pending in the applicating 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) <u>15-28</u> are subject to restriction and/	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) as a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination is objected.	ccepted or b) objected to e drawing(s) be held in abeyal ection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d	d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(	s)/Mail Date nformal Patent Application	

Application/Control Number: 10/577,621 Page 2

Art Unit: 3744

## **DETAILED ACTION**

## Election/Restrictions

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species A - Figure 2

Species B - Figure 3

Species C - Figure 5

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) appear generic: Claims 19, 20, 21, 26.

## REQUIREMENT FOR UNITY OF INVENTION

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in

Art Unit: 3744

a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Woodward et al (EP 0 959 314) hereafter W or Coveney (US 3731495) hereafter C or Morello (US 3940263) hereafter M teach a method and apparatus comprising: dividing a stream (W- 203,C - 10, M -from 6) into at least a first (W- 205, C -14, M -to 10 and 9) and a second fraction (W-207, C -12 towards 12b, M -to 12); sending some (W- 205, C -30, M -10 to 9) of the first fraction (W-205, C -14, M -to 10) into a separation unit (W-210, C - B and C, M -9); supplying from the unit (W-210, C - B and C, M -9) a first stream (W-211, C -66, M -O2) which has a content of part X (W- N2,C -N2, M -O2) greater than that of the first fraction (W- 205, C -14, M -to 10 and 9); mixing some (W-211, C -66 to 34e, M -in 17) of the first stream (W-211, C -66, M -O2) with some of the second fraction (W- 207, C -12 towards 12b, M -to 12) in order to form a mixture (W-19, C -17, M -in 17); wherein the second fraction (W- 207, C -12 towards 12b, M -to 12) is expanded (W- by 217, C -by 12b, M -

Application/Control Number: 10/577,621 Page 4

Art Unit: 3744

by 12) before one part of the first stream (W- 211, C -66, M -O2) is mixed therewith. Therefore, the species do no have the same special technical features and a lack of unity is present.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John F. Pettitt whose telephone number is 571-272-0771. The examiner can normally be reached on M-F 8a-4p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler or Frantz Jules can be reached on 571-272-4834 or 571-272-6681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/577,621 Page 5

Art Unit: 3744

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John F Pettitt / Examiner, Art Unit 3744

JFP III August 17, 2010 /Cheryl J. Tyler/ Supervisory Patent Examiner, Art Unit 3744